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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/600,494	06/07/2004	Gerrit Jan Barend Assink	TS 0715 USA P	1658
23632 75	590 05/24/2005		EXAMINER	
SHELL OIL COMPANY P O BOX 2463		LANGEL, WAYNE A		
HOUSTON, TX 772522463			ART UNIT	PAPER NUMBER
,			1754	

DATE MAILED: 05/24/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/600,494	ASSINK ET AL.				
Office Action Summary	Examiner	Art Unit				
•	Wayne Langel	1754				
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statutt Any reply received by the Office later than three months after the mailine - earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be ti ly within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONI	mely filed ys will be considered timely. n the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 22 A	April 2005					
	<u> </u>					
3) Since this application is in condition for allowa		osecution as to the merits is				
closed in accordance with the practice under	•	•				
Disposition of Claims						
4)⊠ Claim(s) <u>9-34</u> is/are pending in the application						
4a) Of the above claim(s) is/are withdra	iwn from consideration.					
5) Claim(s) is/are allowed.						
6) Claim(s) 9-34 is/are rejected.	÷					
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	or election requirement					
· · · · · · · · · · · · · · · · · · ·	or election requirement.					
Application Papers		•				
9) The specification is objected to by the Examine						
10)☐ The drawing(s) filed on is/are: a)☐ acc						
Applicant may not request that any objection to the		` '				
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E.	, , , , , , , , , , , , , , , , , , , ,	• , ,).			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Burea	ts have been received. ts have been received in Applicat prity documents have been receiv	tion No				
* See the attached detailed Office action for a list		ed.				
		.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary Paper No(s)/Mail D					
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 	5) Notice of Informal (Patent Application (PTO-152)				
Paper No(s)/Mail Date	6) Other:					

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Application/Control Number: 10/600,494

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 9-34 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over EP 0303438, for the reasons given in the last Office Action. Applicant's argument, that EP 0303438 does not disclose a specific arrangement comprising a first layer which is, during normal operation, located at an upstream end of the fixed arrangement and comprises as a catalytically active metal or precursor thereof rhodium or a rhodium compound, and a second layer adjacent to the first layer with substantially no gap between the first layer and the second layer which is, during normal operation, located downstream of the first layer, the second layer comprising as a catalytically active metal or precursor thereof iridium, osmium or platinum, is not convincing. EP 0303438 discloses at col. 7, lines 37-44 that catalyst discs 54 may consist of platinum wire mesh coated with rhodium. The platinum and rhodium in such platinum wire mesh would constitute "layers" of the platinum and rhodium and a "fixed arrangement". Moreover, EP 0303438 discloses at col. 7, lines 21-36 that catalyst discs 54 may comprise thin sheets coated with mixtures of rhodium and

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iridium, osmium or platinum. Part of such mixture is considered to constitute a layer of rhodium, while another part is considered to constitute a layer of iridium, osmium or platinum, and would be in the form of a "fixed arrangement". In any event, it would be obvious to employ such layers of metals, since EP 0303438 discloses that these metals are catalytically active and may be in the form of thin sheets. Applicant's argument, that the present invention results in catalyst with a slower deactivation rate than a catalyst comprising a combination of catalytically active metals that are alone or combined in a single layer, is not convincing, since the deactivation rate of the catalyst recited in applicant's claims would not necessarily be any lower than the deactivation rate of the catalyst of EP 0303438.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Wayne Langel whose telephone number is 571-272-1353. The examiner can normally be reached on Mondays to Fridays from 8 to 3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman, can be reached on 571-272-1358. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Wayne Langel Primary Examiner Art Unit 1754